



Instrument Calibration Report

Instrument/Serial Number	Application	Calibration Test Date
Evergreen Telemetry S-PVF-1 / 2100453A	Pressure/Velocity/CFM (Air)	6/27/2022
Evergreen Telemetry MS – T&H – 101 / 2100141B	Temperature/Humidity Module	6/27/2022
Evergreen Telemetry PR – TH – 1 / 2100143	Humidity Sensor	6/27/2022
Evergreen Telemetry PR – T – 2 / 2100106	Temperature Sensor	6/27/2022
Evergreen Telemetry PR – T – 4 – 6 / 2100234	Temperature Sensor	6/27/2022
Evergreen Telemetry PR – T – 5 / 2100267	Temperature Sensor	6/27/2022
Dwyer A-490W-3 / D8:09:B4:36:1A:6A	Water Pressure	7/8/2022
Dwyer A-490W-3 / F6:12:47:3E:2B:47	Water Pressure	7/8/2022
Dwyer A-490W-6 / D1:07:BB:F0:06:A9	Water Pressure	7/8/2022
Dwyer A-490W-6 / EA:16:87:BC:F7:1E	Water Pressure	7/8/2022
Amprobe AMP-220 / 170201139	AMP/Volts	7/8/2022
EXTECH 461895 / H308432	Rotation (RPM)	7/8/2022
EXTECH 461825 / H437768	Rotation (RPM)	7/8/2022
Amprobe TMA-10A / 12040330	Velocity (Air)	7/8/2022



Certified Technician: Adam Weis (AW)

NEBB TAB Firm: Airflow Pros

Certified Professional: Ronald A. Choina II

Reg. Number: 3507



EVERGREEN TELEMETRY

Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry	Calibration Environment		
Product	Pressure / Velocity Module	Temperature	75	°F
Model	S-PVF-1	Rel. Humidity	38	%
SN	2100453A	Bar. Pressure	28.8	in Hg

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

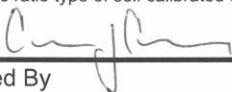
Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument	
			Min	Max		
Barometric Pressure (in Hg)	Spec		-2% - 0.1	+ 2% + 0.1		
	1	20.0			20.0	
	2	28.7			28.8	
	3	33.0			33.1	
Differential Pressure (in wc)	Spec		-2%-0.001	+2%+.001		
	1	10.00			9.987	
	2	2.000			1.999	
	3	0.5000			0.4987	
	4	0.0500			0.0496	
	5	-10.00			-10.029	
	6	-0.0500			-0.0496	
Via Pitot >> Velocity Pressure >> (inW.C. / FPM) -3% -7			-3% - 7	+3% + 7		
	7	0.00064 / 101			102	
	8	0.0159 / 505			506	

Indicates out of tolerance condition -----↑

NIST-Traceable Lab Calibration Standards

Variable	System ID	Calibration Last	Calibration Due
Pressure	7481227	27-Oct-21	27-Oct-22
Pressure	7568470	27-Oct-21	27-Oct-22
Pressure	1208000080	18-Jan-22	18-Jan-24
Velocity	2100190A	29-Mar-21	29-Mar-23

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self calibrated techniques.



 Calibrated By

27-Jun-2022 27-Jun-2024

 Calibration Date Date Due



EVERGREEN TELEMETRY

Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry	Calibration Environment		
Temperature Product	Module Sensor	Temperature	75	°F
Model	MS - T&H - 101	Rel. Humidity	28	%
SN	2100141B	Bar. Pressure	28.6	in Hg

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument
			Min	Max	
Cal Lab Probe & Test Module	Spec				
Temperature (°F)	1	79.0	-0.3	+0.3	78.9
	2	243.0	-2.6	+2.6	241.9
	3	-44.4	-1.6	+1.6	-44.8

Indicates out of tolerance condition ----↑

Calibration Standard SN & Dates

Variable	System ID	Calibration Last	Calibration Due
Temperature	21396189	5-Oct-21	5-Oct-23

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self calibrated techniques.



 Calibrated By

27-Jun-2022 27-Jun-2024

 Calibration Date Date Due



EVERGREEN TELEMETRY

Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry	Calibration Environment		
Product	Humidity Sensor	Temperature	75	°F
Model	PR-TH-1	Rel. Humidity	38	%
SN	2100143	Bar. Pressure	28.8	in Hg

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument
			Min	Max	
Temperature (°F)	Spec				
	1	39.4	-1.0	1.0	39.1
	2	78.3	-1.0	1.0	78.1
	3	87.2	-1.0	1.0	86.9
	4	129.1	-2.0	2.0	129.1
Barometric Pressure (in Hg)	Spec		-2% - 0.1	+ 2% + 0.1	
	1	20.0			20.0
	2	28.9			28.9
	3	33.0			33.0
Humidity %RH 10 to 90%	Spec		-3	3	
	1	10.5			11.3
	2	20.7			23.0
	3	56.4			55.2
	4	85.7			83.0

Indicates out of tolerance condition -----↑

Calibration Standard

Variable	System ID	Calibration Last	Calibration Due
Temperature	21396189	5-Oct-21	5-Oct-23
Pressure	1208000080	18-Jan-22	18-Jan-24
Humidity	T2810600	12-Jul-21	12-Jul-22

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self calibrated techniques.

Temperature accuracy (dry bulb) varies across the operating range:

Temperature over 32-100F +/- 1.0 F
Temperature over 100-158F +/- 2.0 F

Calibrated By

27-Jun-2022
Calibration Date

27-Jun-2023
Date Due



EVERGREEN TELEMETRY

Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry		Calibration Environment		
Temperature Product	Module	Probe	Temperature	75	°F
Model		PR-T-2	Rel. Humidity	38	%
SN		2100106	Bar. Pressure	28.8	in Hg

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

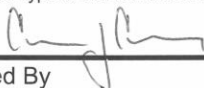
Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument
			Min	Max	
Cal Lab Module & Test Probe	Spec				
Temperature (°F)	1	78.9	-0.3	+0.3	79.0
	2	243.1	-2.6	+2.6	243.9
	3	-44.7	-1.6	+1.6	-44.5

Indicates out of tolerance condition ----↑

Calibration Standard SN & Dates

Variable	System ID	Calibration Last	Calibration Due
Temperature	21396189	5-Oct-21	5-Oct-23

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self calibrated techniques.



 Calibrated By

27-Jun-2022 27-Jun-2024

 Calibration Date Date Due



EVERGREEN TELEMETRY

Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry		Calibration Environment		
Temperature Product	Module	Probe	Temperature	75	°F
Model		PR-T-4-6	Rel. Humidity	28	%
SN		2100234	Bar. Pressure	28.6	in Hg

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

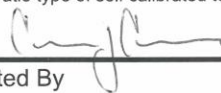
Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument
			Min	Max	
Cal Lab Module & Test Probe	Spec				
Temperature (°F)	1	78.6	-0.3	+0.3	78.9
	2	243.1	-2.6	+2.6	243.8
	3	-44.6	-1.6	+1.6	-44.5

Indicates out of tolerance condition ----↑

Calibration Standard SN & Dates

Variable	System ID	Calibration Last	Calibration Due
Temperature	21396189	5-Oct-21	5-Oct-23

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self calibrated techniques.



 Calibrated By

27-Jun-2022 27-Jun-2024

 Calibration Date Date Due



EVERGREEN TELEMETRY

Certificate of Calibration

Airflow Pros

Manufacturer	Evergreen Telemetry		Calibration Environment		
Temperature Product	Module	Probe	Temperature	78	°F
Model		PR-T-5	Rel. Humidity	38	%
SN		2100267	Bar. Pressure	28.8	in Hg

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

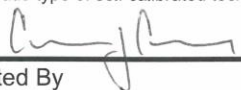
Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument
			Min	Max	
Cal Lab Module & Test Probe	Spec				
Temperature (°F)	1	79.0	-0.3	+0.3	78.9
	2	243.0	-2.6	+2.6	241.9
	3	-44.4	-1.6	+1.6	-44.8

Indicates out of tolerance condition ----↑

Calibration Standard SN & Dates

Variable	System ID	Calibration Last	Calibration Due
Temperature	21396189	5-Oct-21	5-Oct-23

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self calibrated techniques.



 Calibrated By

27-Jun-2022 27-Jun-2024

 Calibration Date Date Due



Hoover Instrument Service, Inc.
 401 North Home Road
 Mansfield, Ohio 44906-2398
 (419) 529-3226 Fax(419) 529-9360

To: **Airflow Pros**
1001 Eastwind Drive - Suite 203
Westerville, OH 43081

Test Report # 61100
 P.O.# _____
 Date: 7/8/22

Condition as Received Returned In Tolerance Out of Tolerance Data on Next Sheet

Make:	Hoover		Customer		Hoover	Customer	
	PSI						
Dwyer							
Description: hydronic pressure manometer					10.00	<u>9.94</u>	
Model # A-490W-3					20.00	<u>19.89</u>	
Mfg Serial # D8:09:B4:36:1A:6A					30.00	<u>29.84</u>	
Customer # _____					40.00	<u>39.81</u>	
RH % <u>53</u> Temperature: <u>23</u> °C					50.00	<u>49.81</u>	
Accuracy: <u>+/- 2% +/- 1 psi</u>							
Accuracy of Standard: <u>+/- 0.1%</u>							

Services Performed:

- Cleaned
- Movement Repaired
- Pointer Repaired
- Reset Pointer
- Zero Adjusted
- Adjust Calibration
- Repaired
- Batteries
- Calibration Location On Site

Test Instruments Used:

Crystal #300psiXP2i s/n 821664

Due Date:

6/23

Notes:

Calibration Procedure: 5040-51

Revision: 0

Calibration Cycle: 1 year

Tested By: [Signature]

Quality Control: [Signature]



Hoover Instrument Service, Inc.
 401 North Home Road
 Mansfield, Ohio 44906-2398
 (419) 529-3226 Fax(419) 529-9360

To: **Airflow Pros**
1001 Eastwind Drive - Suite 203
Westerville, OH 43081

Test Report # 61099
 P.O.# _____
 Date: 7/8/22

Condition as Received Returned In Tolerance Out of Tolerance Data on Next Sheet

Make:	Hoover	Customer	Hoover	Customer	Hoover	Customer
Dwyer			PSI			
Description: hydronic pressure manometer			10.00	9.92		
Model # A-490W-3			20.00	19.87		
Mfg Serial # F6:12:47:3E:2B:47			30.00	29.78		
Customer # _____			40.00	39.73		
RH % <u>53</u> Temperature: <u>23</u> °C			50.00	49.67		
Accuracy: +/- 2% +/- 1 psi						
Accuracy of Standard: +/- 0.1%						

Services Performed:

- Cleaned
- Movement Repaired
- Pointer Repaired
- Reset Pointer
- Zero Adjusted
- Adjust Calibration
- Repaired
- Batteries
- Calibration Location On Site

Test Instruments Used:

Crystal #300psiXP2i s/n 821664

Due Date:

6/23

Notes:

Calibration Procedure: 5040-51

Revision: 0

Calibration Cycle: 1 year

Tested By: [Signature]

Quality Control: [Signature]



Hoover Instrument Service, Inc.
 401 North Home Road
 Mansfield, Ohio 44906-2398
 (419) 529-3226 Fax(419) 529-9360

To: **Airflow Pros**
1001 Eastwind Drive - Suite 203
Westerville, OH 43081

Test Report # 61101
 P.O.# _____
 Date: 7/8/22

Condition as Received Returned In Tolerance Out of Tolerance Data on Next Sheet

	Hoover	Customer	Hoover	Customer	Hoover	Customer
Make: <u>Dwyer</u>				<u>PSI</u>		
Description: <u>hydronic pressure manometer</u>			40.00	<u>39.96</u>		
Model # <u>A-490W-6</u>			80.00	<u>79.84</u>		
Mfg Serial # <u>D1:07:BB:F0:06:A9</u>			120.00	<u>119.77</u>		
Customer # _____			160.00	<u>159.81</u>		
RH % <u>53</u> Temperature: <u>23</u> °C			200.00	<u>199.83</u>		
Accuracy: <u>+/- 2% +/- 1 psi</u>						
Accuracy of Standard: <u>+/- 0.1%</u>						

Services Performed:

- Cleaned
- Movement Repaired
- Pointer Repaired
- Reset Pointer
- Zero Adjusted
- Adjust Calibration
- Repaired
- Batteries
- Calibration Location On Site

Test Instruments Used:

Crystal #300psiXP2i s/n 821664

Due Date:

6/23

Notes:

Calibration Procedure: 5040-51

Revision: 0

Calibration Cycle: 1 year

Tested By: [Signature]

Quality Control: [Signature]



Hoover Instrument Service, Inc.
 401 North Home Road
 Mansfield, Ohio 44906-2398
 (419) 529-3226 Fax(419) 529-9360

To: **Airflow Pros**
1001 Eastwind Drive - Suite 203
Westerville, OH 43081

Test Report # 61102
 P.O.# _____
 Date: 7/8/22

Condition as Received Returned In Tolerance Out of Tolerance Data on Next Sheet

	Hoover	Customer	Hoover	Customer	Hoover	Customer
Make: <u>Dwyer</u>				<u>PSI</u>		
Description: <u>hydronic pressure manometer</u>			40.00	<u>29.86</u>		
Model # <u>A-490W-6</u>			80.00	<u>79.80</u>		
Mfg Serial # <u>EA:16:87:BC:F7:1E</u>			120.00	<u>119.68</u>		
Customer # _____			160.00	<u>159.72</u>		
RH % <u>53</u> Temperature: <u>23</u> °C			200.00	<u>199.64</u>		
Accuracy: <u>+/- 2% +/- 1 psi</u>						
Accuracy of Standard: <u>+/- 0.1%</u>						

Services Performed:

- Cleaned
- Movement Repaired
- Pointer Repaired
- Reset Pointer
- Zero Adjusted
- Adjust Calibration
- Repaired
- Batteries
- Calibration Location On Site

Test Instruments Used:

Crystal #300psiXP2i s/n 821664

Due Date:

6/23

Notes:

Calibration Procedure: 5040-51

Revision: 0

Calibration Cycle: 1 year

Tested By: Tom Fry

Quality Control: [Signature]



AIRFLOW PROS

Calibration Certificate

Hoover Instrument Service, Inc.
 401 North Home Road
 Mansfield, Ohio 44906-2398
 (419) 529-3226 Fax(419) 529-9360

To: **Airflow Pros**
1001 Eastwind Drive - Suite 203
Westerville, OH 43081

Test Report # 61096
 P.O.# _____
 Date: 7/8/22

Condition as Received Returned In Tolerance Out of Tolerance Data on Next Sheet

Make:	<u>Amprobe</u>	Hoover	Customer	Hoover	Customer	Hoover	Customer
Description:	<u>ac/dc clamp-on</u>	DCV		ACV		Resistance	
Model #	<u>AMP-220</u>	50.00	<u>49.9</u>	50.00	<u>49.9</u>	100.0	<u>100.0</u>
Mfg Serial #	<u>170201139</u>	100.0	<u>99.9</u>	100.0	<u>99.9</u>	1.000 K	<u>0.999K</u>
Customer #	_____	150.0	<u>149.9</u>	150.0	<u>149.9</u>	10.000 K	<u>10.00K</u>
RH %	<u>53</u> Temperature: <u>23 °C</u>	250.0	<u>249.8</u>	250.0	<u>250.0</u>	_____	_____
Accuracy:	acv = +/- 1% +/- 5d	500.0	<u>499.8</u>	500.0	<u>500.0</u>	_____	_____
	aca = +/- 1.8% +/- 5d	_____	_____	_____	_____	_____	_____
	dcv = +/- 1% +/- 5d	_____	_____	_____	_____	_____	_____
	dca = +/- 2% +/- 5d	_____	_____	_____	_____	_____	_____
Accuracy of Standard:	_____	DCA		ACA		_____	_____
	acv = +/- 0.5%	25.0	<u>24.89</u>	25.0	<u>25.08</u>	_____	_____
	dcv = +/- 0.03%	50.0	<u>50.05</u>	50.0	<u>50.12</u>	_____	_____
	aca = +/- 0.5%	75.0	<u>75.5</u>	75.0	<u>75.2</u>	_____	_____
	dca = +/- 0.3%	100.0	<u>100.6</u>	100.0	<u>100.3</u>	_____	_____
	res. = +/- 0.1%	200.0	<u>202.2</u>	200.0	<u>201.2</u>	_____	_____
	_____	300.0	<u>303.5</u>	300.0	<u>302.4</u>	_____	_____
	_____	400.0	<u>404.6</u>	400.0	<u>403.0</u>	_____	_____
	_____	500.0	<u>504.3</u>	500.0	<u>505.8</u>	_____	_____

Services Performed:

- Cleaned
- Movement Repaired
- Pointer Repaired
- Reset Pointer
- Zero Adjusted
- Adjust Calibration
- Repaired
- Batteries

Calibration Location On Site

Test Instruments Used:

Amprobe	#BDM40-UA	s/n 07110052
Shallcross	#830	s/n 21107

Due Date:

12/22
4/23

Notes:

Calibration Procedure: 5075-33

Revision: 0

Calibration Cycle: 1 year

Tested By: [Signature]

Quality Control: [Signature]



Hoover Instrument Service, Inc.
 401 North Home Road
 Mansfield, Ohio 44906-2398
 (419) 529-3226 Fax(419) 529-9360

To: **Airflow Pros**
1001 Eastwind Drive - Suite 203
Westerville, Ohio 43081
 Attn: **Ron Chiona**

Test Report # 61104
 P.O.# _____
 Date: 7/8/22

Condition as Received Returned In Tolerance Out of Tolerance Data on Next Sheet

Make: <u>Extech</u>	Hoover	Customer	Hoover	Customer	Hoover	Customer
			RPM			
Description: <u>tachometer</u>			600.0	<u>600.0</u>		
Model # <u>461895</u>			900.0	<u>900.0</u>		
Mfg Serial # <u>H308432</u>			1800.0	<u>1800</u>		
Customer # _____			3000.0	<u>3000</u>		
RH % <u>53</u> Temperature: <u>23</u> °C			3600.0	<u>3599</u>		
Accuracy: _____			6000.0	<u>5999</u>		
<u>+/- 0.05%</u> <u>+/- 1d</u>			7200.0	<u>7200</u>		
Accuracy of Standard: _____						
<u>+/- 0.0008%</u>						

Services Performed:

- Cleaned
- Movement Repaired
- Pointer Repaired
- Reset Pointer
- Zero Adjusted
- Adjust Calibration
- Repaired
- Batteries
- Calibration Location On Site

Test Instruments Used:

Altek #40A s/n 195587

Due Date:

8/22

Notes:

Calibration Procedure: 5023

Revision: 4

Calibration Cycle: 1 year

Tested By: [Signature]

Quality Control: [Signature]



Hoover Instrument Service, Inc.
 401 North Home Road
 Mansfield, Ohio 44906-2398
 (419) 529-3226 Fax(419) 529-9360

To: **Airflow Pros**
1001 Eastwind Drive
Westerville, OH 43081

Test Report # 61103
 P.O.# _____
 Date: 7/8/22

Condition as Received Returned In Tolerance Out of Tolerance Data on Next Sheet

Make:	Hoover		Customer		Hoover		Customer	
	RPM		RPM		RPM		RPM	
Extech								
Description:	stroboscope / photo-tach				Photo-Tach		Stroboscope	
Model #	461825				300.0	<u>300.0</u>	300.0	<u>300.0</u>
Mfg Serial #	H437768				600.0	<u>599.9</u>	600.0	<u>600.0</u>
Customer #					900.0	<u>900.0</u>	900.0	<u>900.0</u>
RH %	<u>53</u>	Temperature:	<u>23</u> °C		1800	<u>1800</u>	1800	<u>1800</u>
Accuracy:					3600	<u>3600</u>	3600	<u>3600</u>
	+/- 0.1 RPM		+/- 2d		7200	<u>7200</u>	7200	<u>7200</u>
Accuracy of Standard:								
	strobe = +/- 0.05%							
	photo = +/- 0.0008%							

Services Performed:

- Cleaned
- Movement Repaired
- Pointer Repaired
- Reset Pointer
- Zero Adjusted
- Adjust Calibration
- Repaired
- Batteries

Calibration Location On Site

Test Instruments Used:

Altek	#40A	s/n 195587
Sperry	#TACH-1	s/n L301594

Due Date:

8/22
4/23

Notes:

Calibration Procedure: **5023-2**

Revision: **1**

Calibration Cycle: **1 year**

Tested By: *[Signature]*

Quality Control: *[Signature]*



Hoover Instrument Service, Inc.
 401 North Home Road
 Mansfield, Ohio 44906-2398
 (419) 529-3226 Fax(419) 529-9360

To: **Airflow Pros**
1001 Eastwind Drive - Suite 203
Westerville, Ohio 43081
 Attn: **Ron Chiona**

Test Report # 61098
 P.O.# _____
 Date: 7/8/22

Condition as Received Returned In Tolerance Out of Tolerance Data on Next Sheet

	Hoover	Customer	Hoover	Customer	Hoover	Customer
			feet/minute		temperature fahrenheit	
Make: Amprobe						
Description: anemometer			510	520	75.0	75.4
Model #: TMA-10A			740	755		
Mfg Serial #: 12040330			1070	1084		
Customer #: _____			1390	1404		
RH % <u>53</u> Temperature: <u>23 °C</u>			1790	1800		
Accuracy: Temp = +/- 1.5 °F +/- 2% of F.S.						
Accuracy of Standard: +/- 5 ft/min Temp = +/- 0.5 °F						

Services Performed:

- Cleaned
- Movement Repaired
- Pointer Repaired
- Reset Pointer
- Zero Adjusted
- Adjust Calibration
- Repaired
- Batteries
- Calibration Location On Site

Test Instruments Used:

Tegam	#855	s/n T-113227
TSI	#8330	s/n 95030100

Due Date:

12/22
6/23

Notes:

Calibration Procedure: **5075-23**

Revision: **0**

Calibration Cycle: **1 year**

Tested By: [Signature]

Quality Control: [Signature]